

Listing of Claims

The following listing of claims replaces all prior versions and listings of claims in the application.

1. (Currently amended): Electronic and mechanical device, integrated into ~~watches or wrist bands~~ a watch or wrist band, displaying solar and lunar ephemeris at the planet scale, characterized in that it offers ~~several~~ at least one visualization selected among the following possibilities (Fig. 1 & 2):

- the first visualization, ~~imaged an image display~~, displays all along the year the evolution of the duration of the day and of the night according to solar or legal time on an LCD display (1),
- the second possibility visualization, ~~with digital a numerical display~~, displays on ~~the a~~ window (2) the sunset time only,

Finally wherein, in order to give the watch a complete astronomical character, a mechanical or electronic part displays the phases of the moon at the scale of the two hemispheres (Fig. 3 & 4),

~~the wrist band being able to serve as support for some complications.~~

2. (Currently amended): Device according to claim 1, characterized in that wherein the imaged solution display, without any number, is obtained via ~~the a~~ circular LCD screen (1) placed at the periphery of ~~the a~~ 24 hour dial of the watch, with a dark portion representing the night extending on both sides of midnight at regular intervals of 5 minutes, but at irregular day intervals, as a function of these 5 minutes.

3. (Currently amended): Device according to claim 2, characterized in that wherein the 24 hour dial has each hour divided in 12 intervals by 6 bars thickened to the dimension of the spaces. As a result, so that the 12 intervals are represented by 6 black spaces alternated with 6 white, the whole being now very legible and visible.

4. (Currently amended): Device according to ~~claims 1 and 2 characterized in that the claim 1, wherein~~ a system, which enables the microprocessor to place and keep every day the image of the night within the programmed limits, implicates ~~the a~~ symbol of a parallel (60°N) and ~~the a~~ day's date (1.1), these two pieces of information implicating a third one: the sunset time, on that day on that parallel, if at noon in that location the sun is at its zenith. This according to a time schedule, immutable for centuries, is being transmitted by the a decoder toward ~~the a~~ microprocessor via a code.

5. (Currently amended): Device according to claim 4, characterized in that wherein there are 144 code numerals, synonymous to the 5 minute time periods, in order to be able to satisfy the ephemeris at the polar circle. ~~The code 0 representing 24 hours; the code 12, twelfth interval, 23:00 on the sunset side and 01:00 on the sunrise side; the code 96 = 16:00 and 08:00,~~ the sunrise being placed automatically in full symmetry with the sunset, at the solar time.

6. (Currently amended): Device according to claim 1 characterized in that 4, wherein, as the time schedules dictated by the symbol of the selected parallel give the exact time only at the

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intersection of that parallel and the time reference meridian. ~~For any other location, the difference shown between the display on the screens and the reality of a real sunset must be corrected by the at any other location is correctable by a lateral pressure push button (4)~~

~~for example, to add 30 minutes, an extended pressure triggers the process, 6 short hits toward noon provide the correction, a last extended pressure confirms it.~~

~~The corrections to adapt to legal time are operated with the same push button. But, after a first, deep push, then 12 short pushes toward noon, this operation is of the developing type, interrupting the symmetry between sunrises and sunsets (Fig. 2).~~

7. (Currently amended): Device according to claim 1 characterized in that, wherein a winding mechanism is adapted, in order to have in the southern hemisphere the same evolution toward a “new moon” but in an aspect as seen from a mirror, ~~it is necessary~~, at each passage across the equator, to reverse the rotation direction of ~~the a~~ black double cache of Fig. 3 through the winding mechanism (5), by pulling it or pushing it the winding mechanism, then by screwing or unscrewing it, so as to go directly from the North phase to the South phase, or reciprocally. As on Fig. 3, pass directly from phase 9 to phase 13 or from phase 12 to 10.

8. (Currently amended): Device according to claim 1, characterized in that, ~~on prestige watches, which have no interest to be changed or charged, it is envisioned to include wherein some complications are located into the wristbands which are easily adaptable wristband.~~

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9. (New): Device according to claim 6, wherein the push button is adapted such that an extended pressure triggers the process, short hits toward noon provide the correction, and a last extended pressure confirms it.